

Prior Art Figure 1

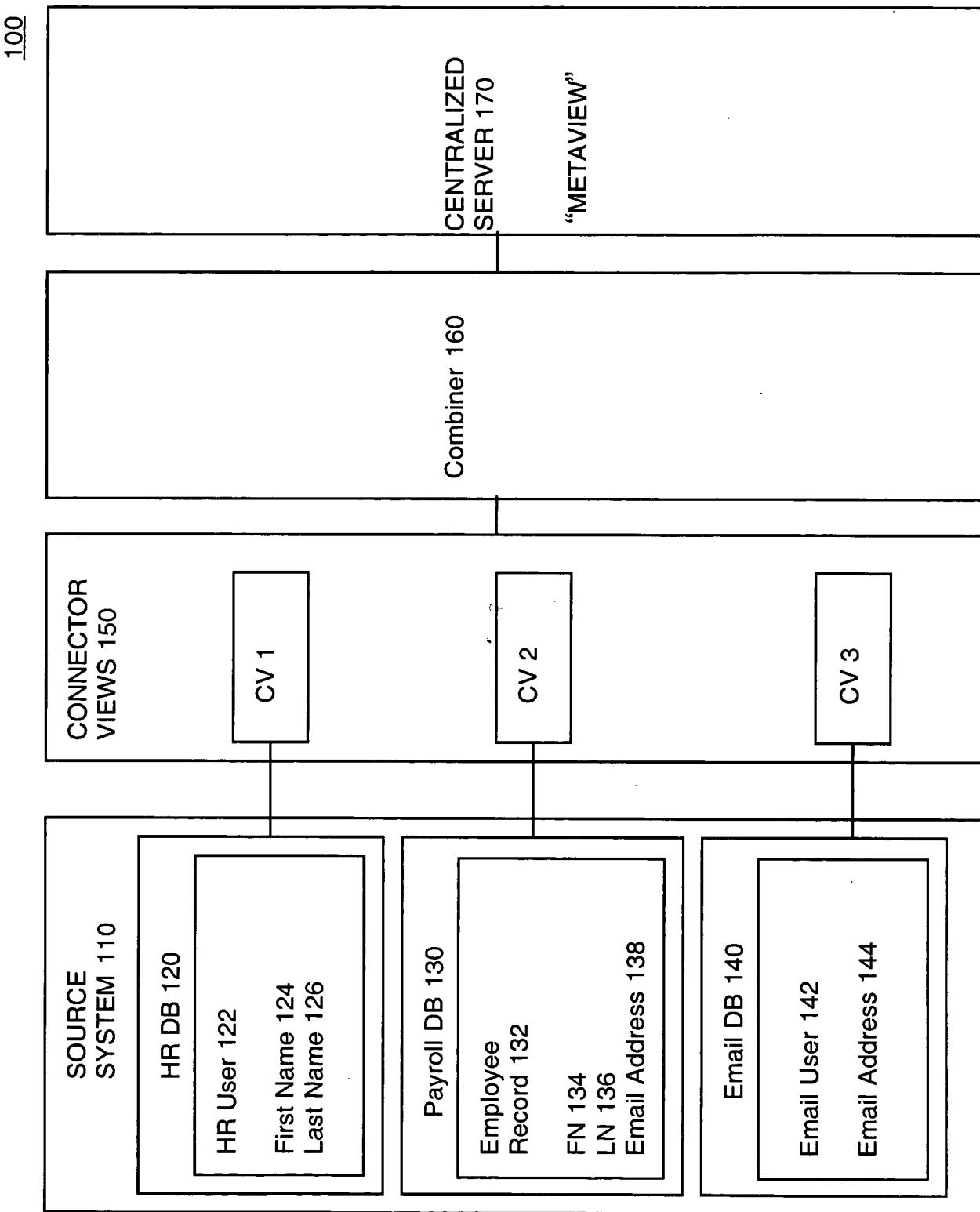


Figure 2

200

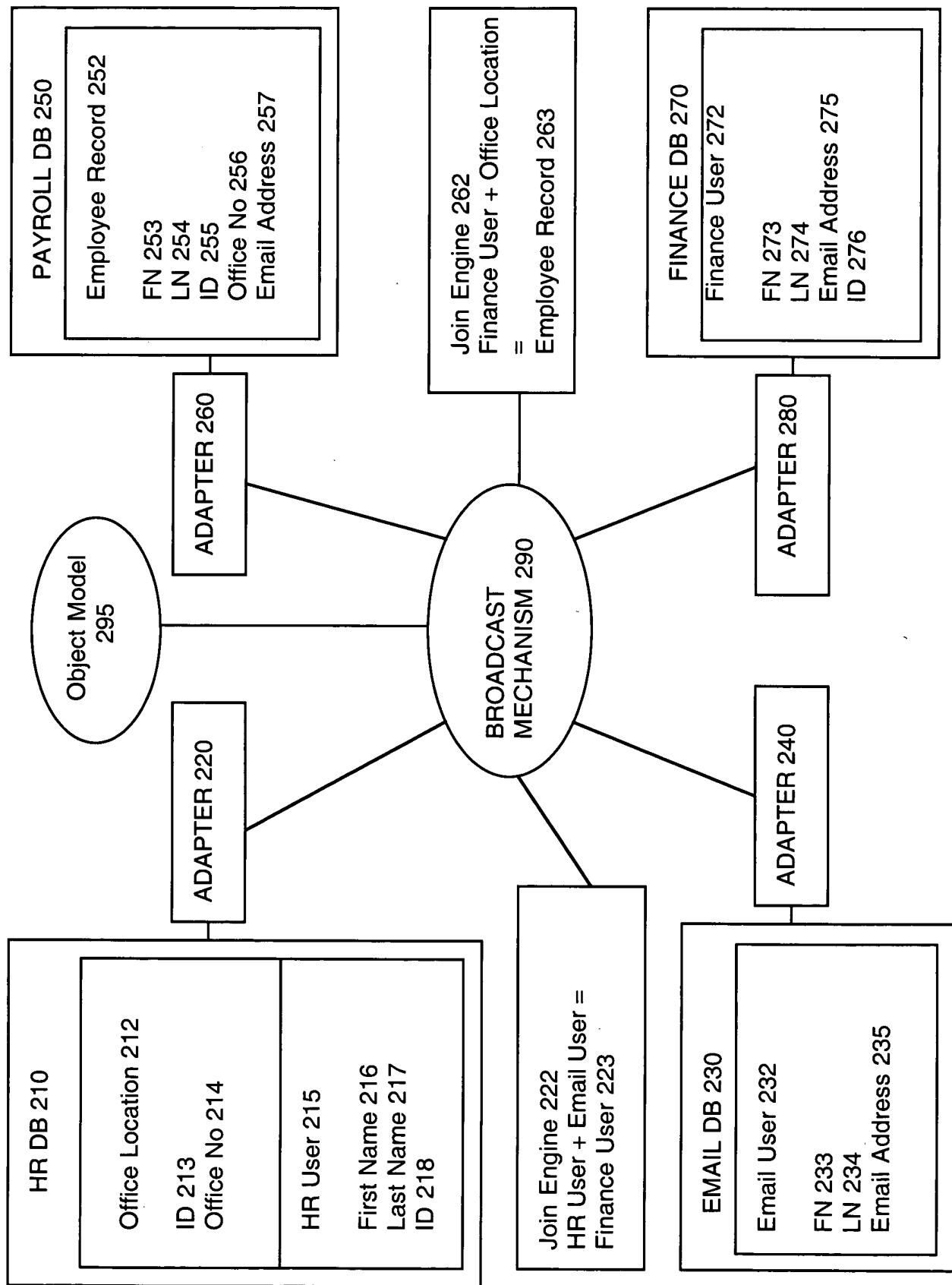
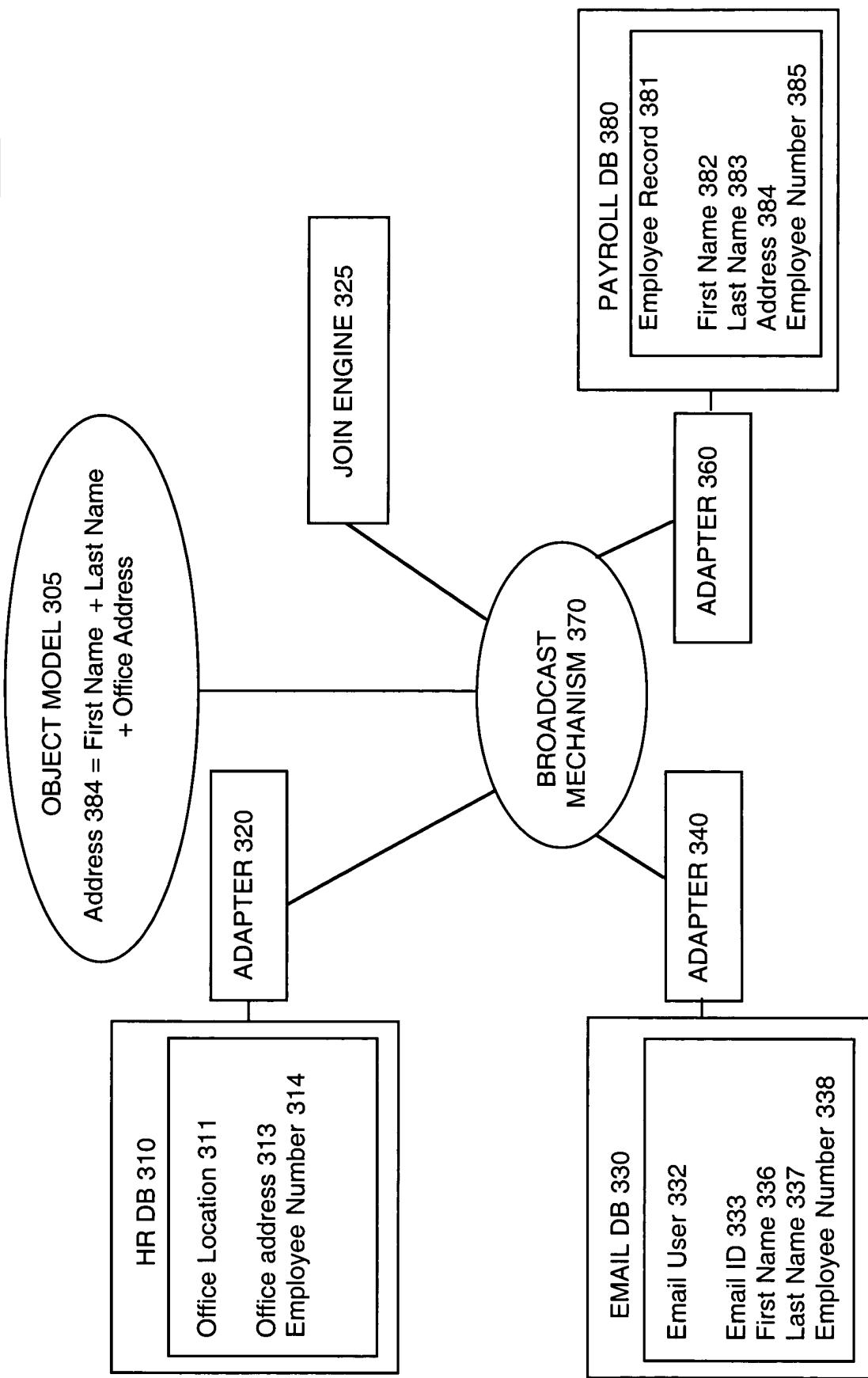


Figure 3A

300a



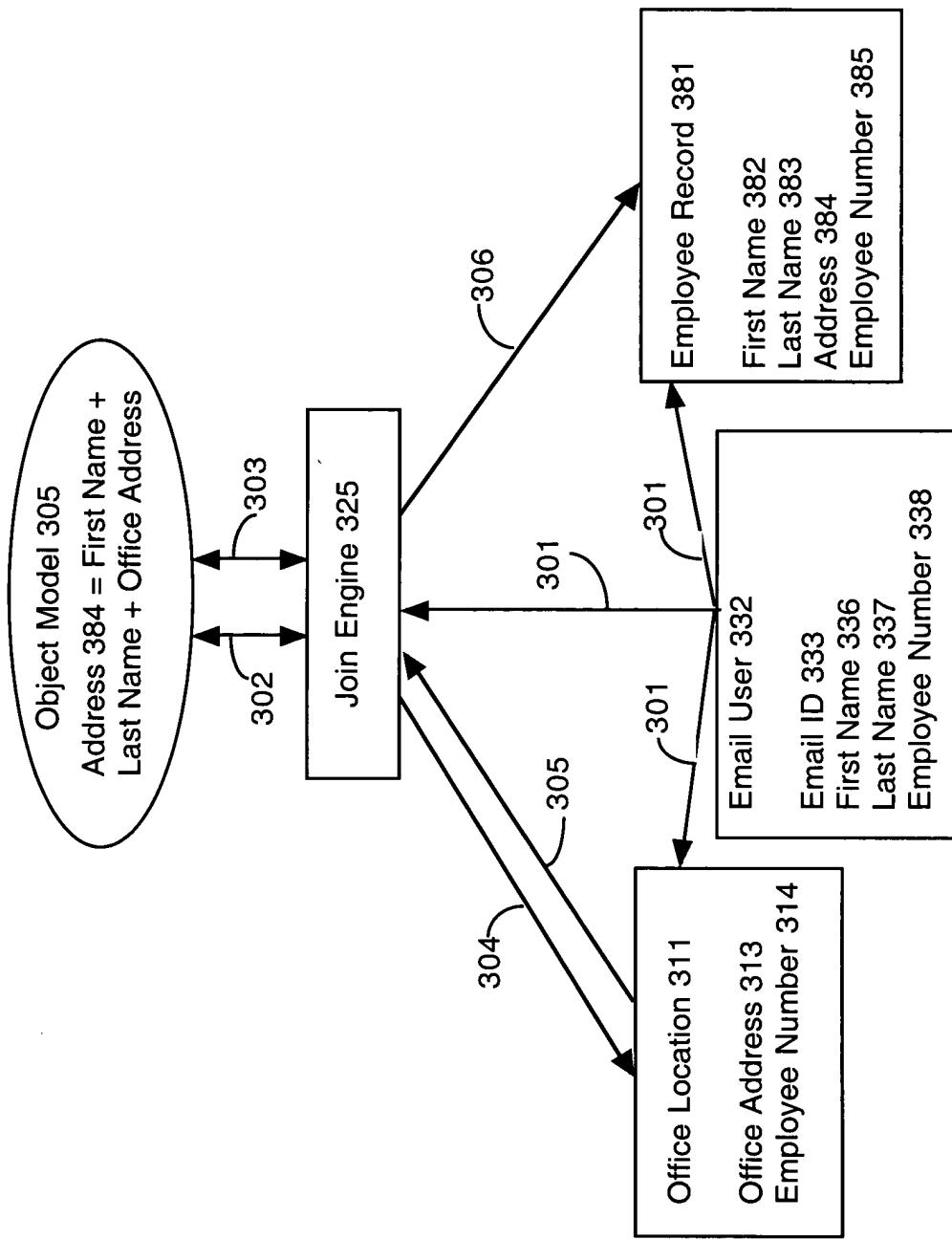


Figure 3B

Source entity "Email User" attribute "Last Name" changes and is published, along with other Email User attributes, to EIS by broadcast mechanism

410

Join engine listening to broadcast channel receives broadcast and consults object model for dependent output entity attributes associated with "Last Name"

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Join engine determines that attribute "Address" on output entity "Employee Record" of Payroll DB needs to be formed

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Join engine consults object model for other attributes required to form "Address"

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Join engine determines that "Office Address" is needed and then sends query to HR DB for "Office Address" on source entity Office Location

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Join engine receives response from Office Location and performs transformation to form "Address"

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Join engine publishes modified attribute set "Address" along with primary key "Employee Number" to output entity "Employee Record" where it is incorporated

470

Continue

Figure 4

500a

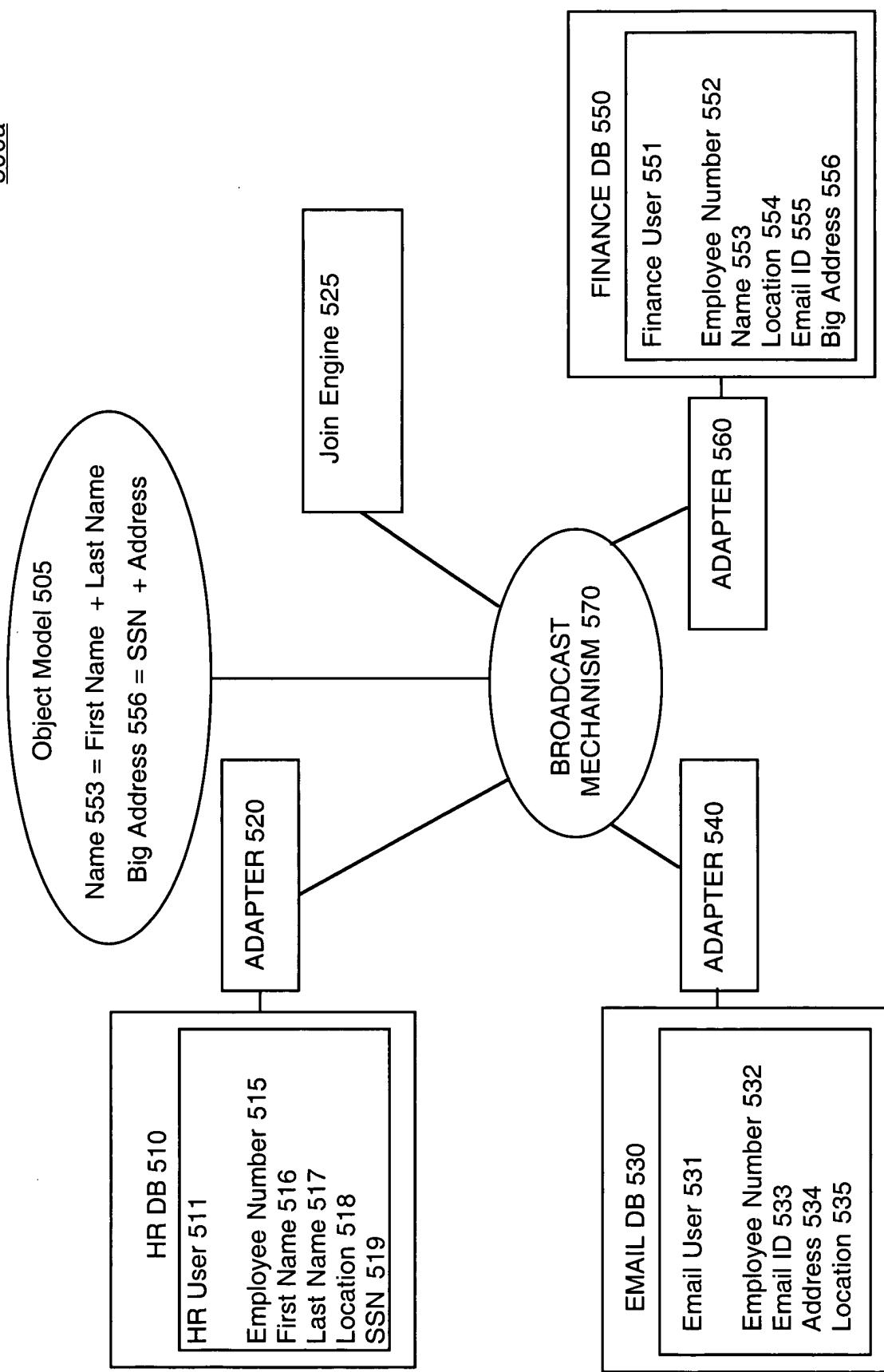


Figure 5A

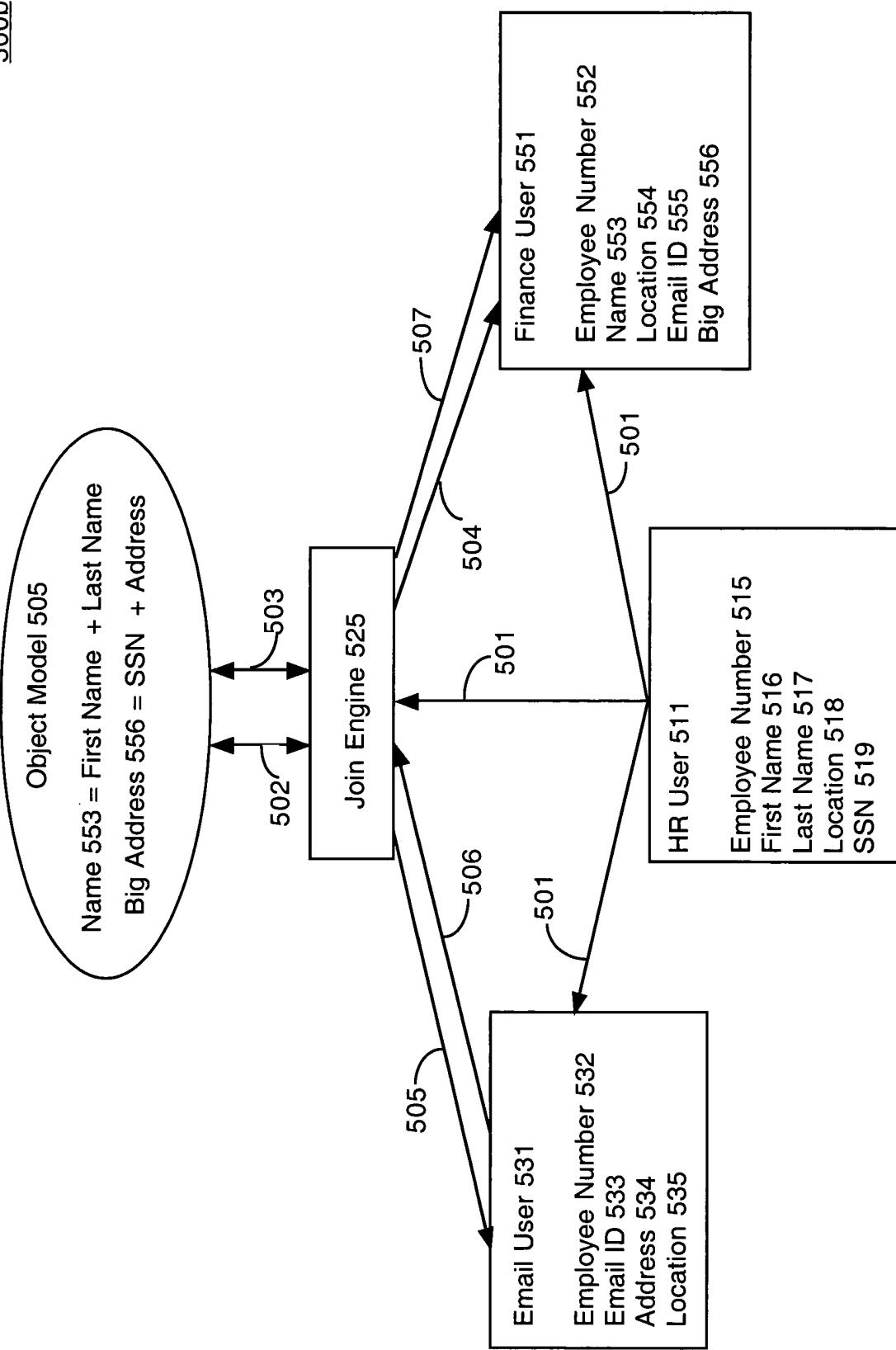


Figure 5B

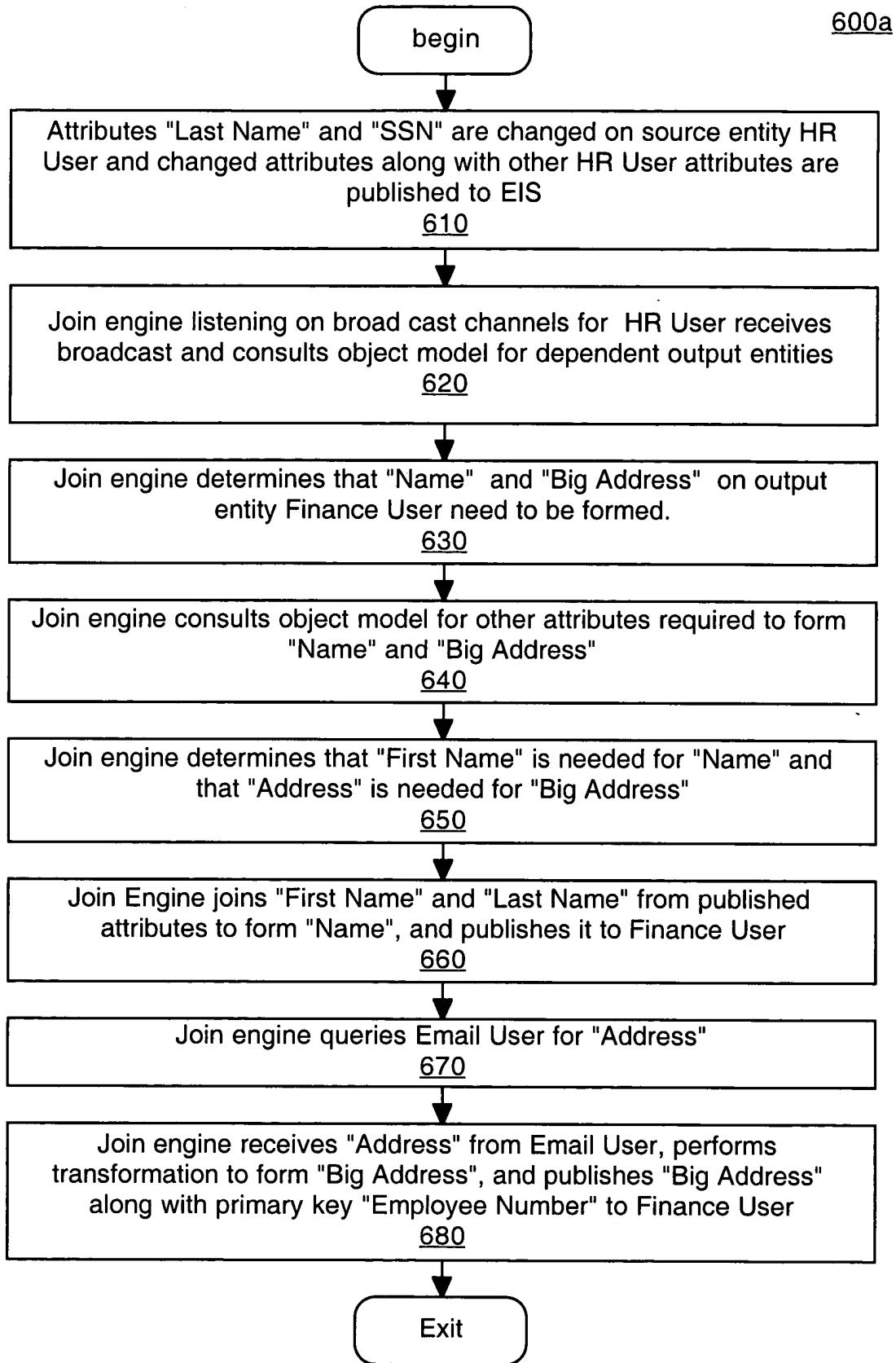


Figure 6A

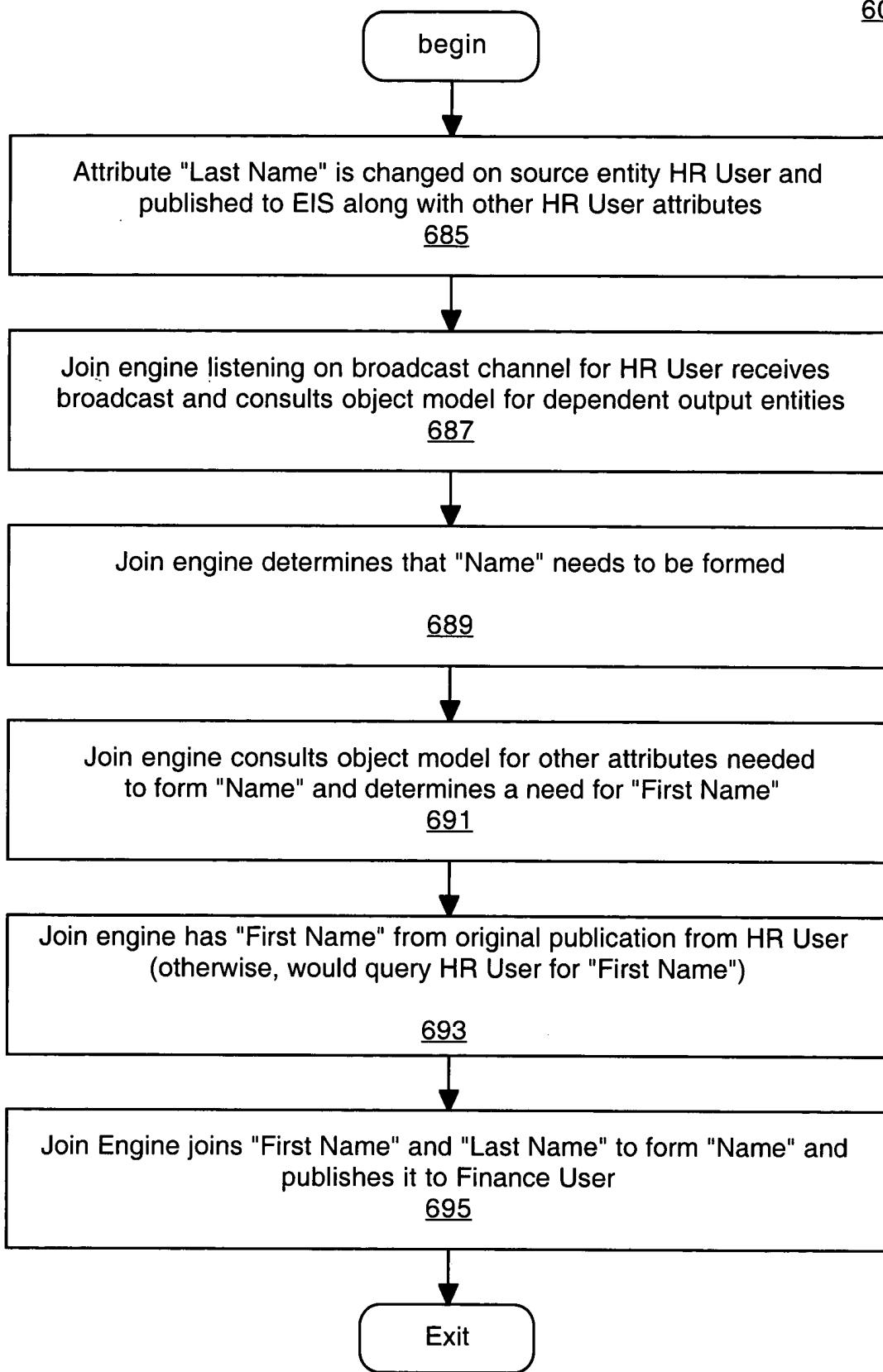


Figure 6B

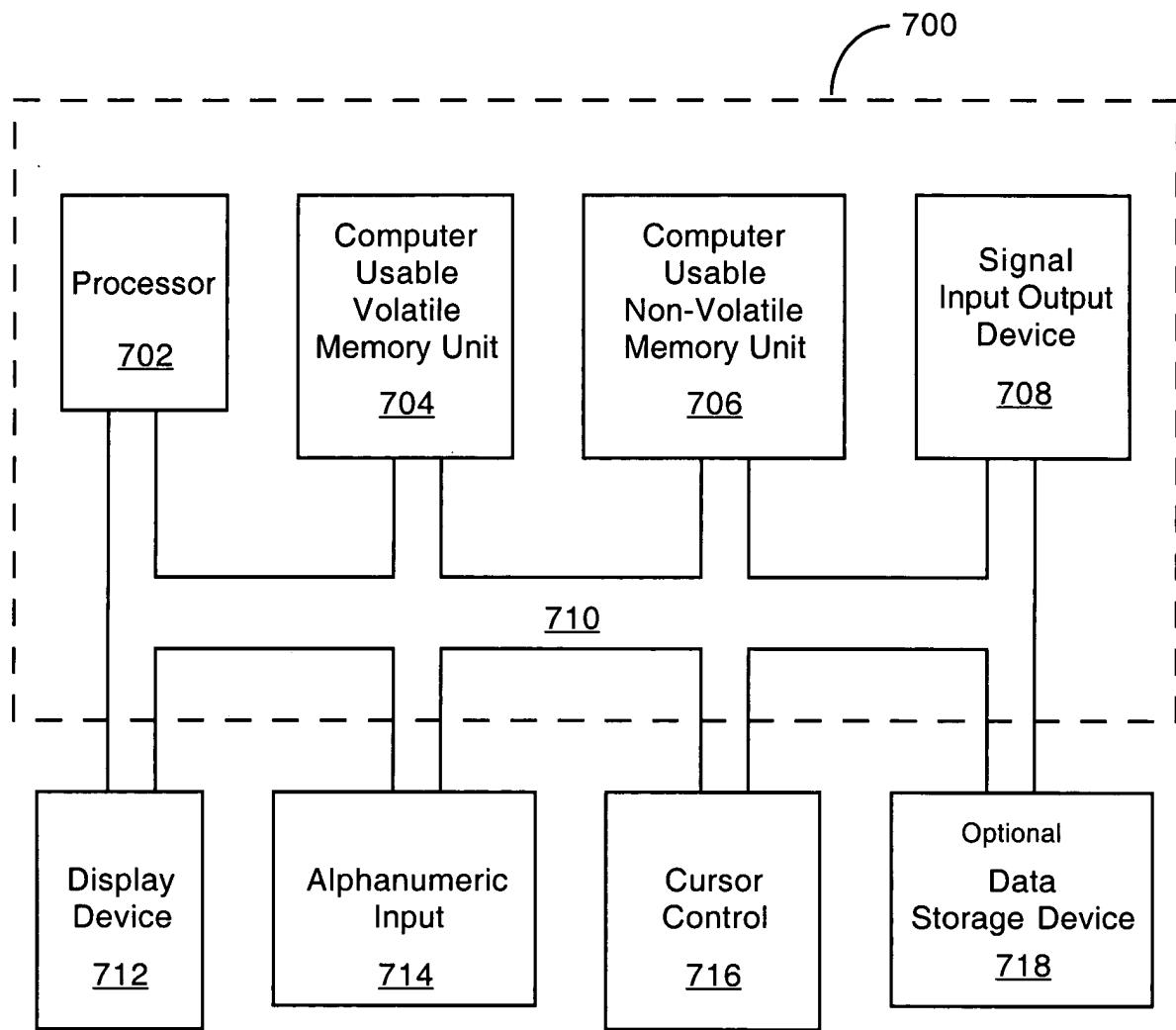


Figure 7